

1 What is claimed is:

2 1. A combination single unit hydrotherapy and exercise device for
3 allowing aquatic exercise, massage, therapy and recreation,
4 including any one of swimming, walking or running in place,
5 comprised of:

6 a. A single seamless plastic enclosure having two ends
7 and bottom there between;

8 b. An open top opposite the bottom, said top defining
9 an outer perimeter sufficiently long and wide to
10 allow a swimmer to swim in place, and having steps
11 at one end as part of the single seamless enclosure
12 to allow access from the top to the bottom where
13 the bottom is sufficiently deep to allow an adult
14 to stand in water at chest high;

15 c. A shaft receiving hole near the bottom of the
16 enclosure;

17 d. Control buttons and safety stop buttons and means
18 at the top of the enclosure;

19 e. A treadmill having a frame and a treadmill belt
20 moved by a rotationally moving roller and shaft,
21 said shaft extending from the treadmill to exit the
22 wall of the enclosure through the shaft hole for
23 connecting to exterior rotational motor means, said
24 treadmill having a variable speed responsive to the
25 control buttons;

26 f. Sealing means to seal the shaft exit hole about the
27 shaft;

1 g. Swim jets at the front end of the enclosure and
2 having means for providing sufficiently powerful
3 water flow from the front to the back of the
4 enclosure so as to provide sufficient resistance to
5 allow swimming in place;

6 h. A treadmill receiving cavity at the bottom having a
7 depth approximately the height of the treadmill and
8 defining ~~from~~ an area on at least three sides of
9 the cavity to constitute a safety step off area.

10 2. The combination aquatic device in claim 1 having a
11 treadmill with impact reducing means for reducing the
12 impact of the feet on the treadmill.

13 3. The combination aquatic device in claim 2 wherein the
14 treadmill with impact reducing means is comprised of a
15 continuous loop treadmill belt having two sides, a
16 treadmill ~~frame~~, having two sides defining the
17 approximate sides to which the treadmill belt extend, a
18 plurality of upper cross-members, ~~A~~^a treadmill bed for
19 supporting the belt, which bed is supported by a
20 plurality/rigid supports, a plurality of individual
21 energy absorption means supporting each of the treadmill
22 rigid supports at the sides.

23 4. The combination aquatic device in claim 1 having
24 treadmill belt adjustment means capable of adjusting the
25 tension of the belt from above the treadmill while the
26 treadmill is in the treadmill receiving cavity.

27 5. The combination aquatic device in claim 2 wherein the
28 treadmill adjustment means are comprised of a wedge

1 shaped rigid member having a threaded screw therein
2 vertically moving the wedge shape in response to
3 rotational movement of the screw, such that the wedge
4 portion provides vertical movement towards and away from
5 a treadmill roller.

6. The aquatic device in claims 1, 2 or 3 having a cover
7 plate surrounding the treadmill for covering the
8 treadmill frame and a portion of the step off ledge, and
9 further having an access cavity in the enclosure adjacent
10 the treadmill receiving means, for access to the
11 treadmill shaft.

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